



Hunters Point Radiological Program Update

Hunters Point Naval Shipyard
BCT Meeting
August 23, 2012



Overview

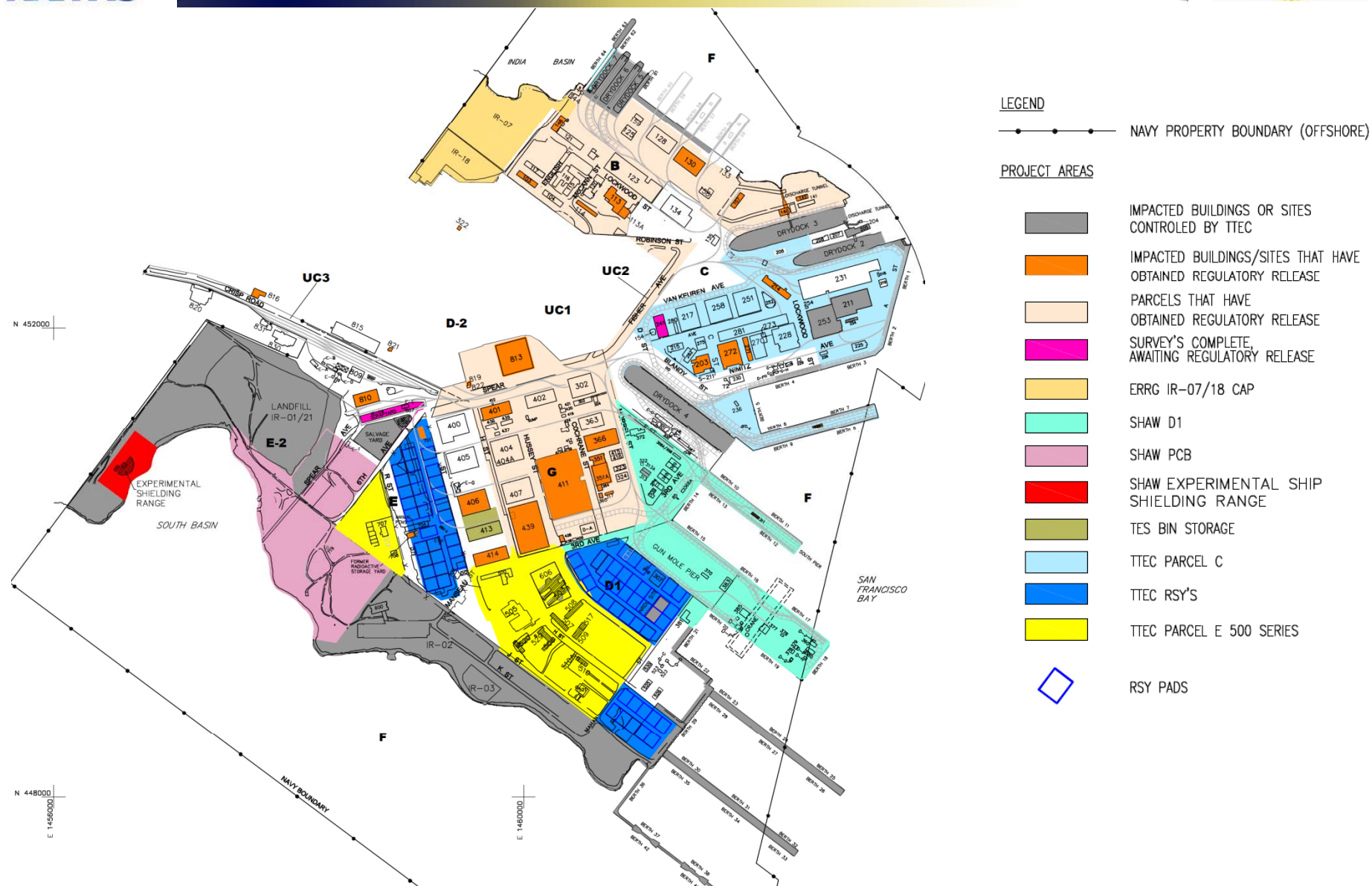


Radiological Project Work Overview

- Current Project Map
- SS/SD Removal and Building Survey Update
 - Crisp Road/Parcel E
 - Parcel C
 - Parcel E 500-Series
 - 707 Triangle Area Remediation
 - Parcel D-1
- Status of Radiological RACRs
- IR 7/18 Update

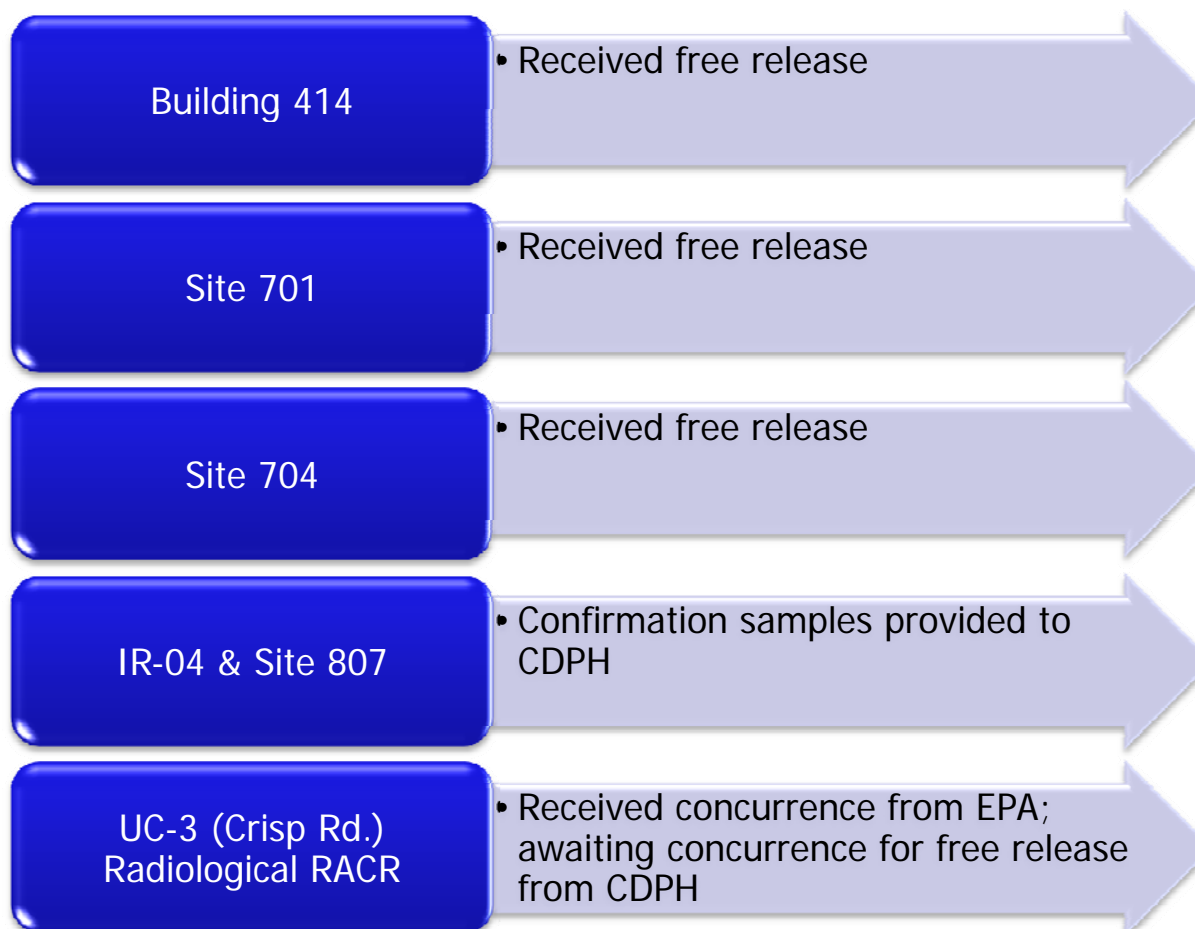


2012 Radiological Projects



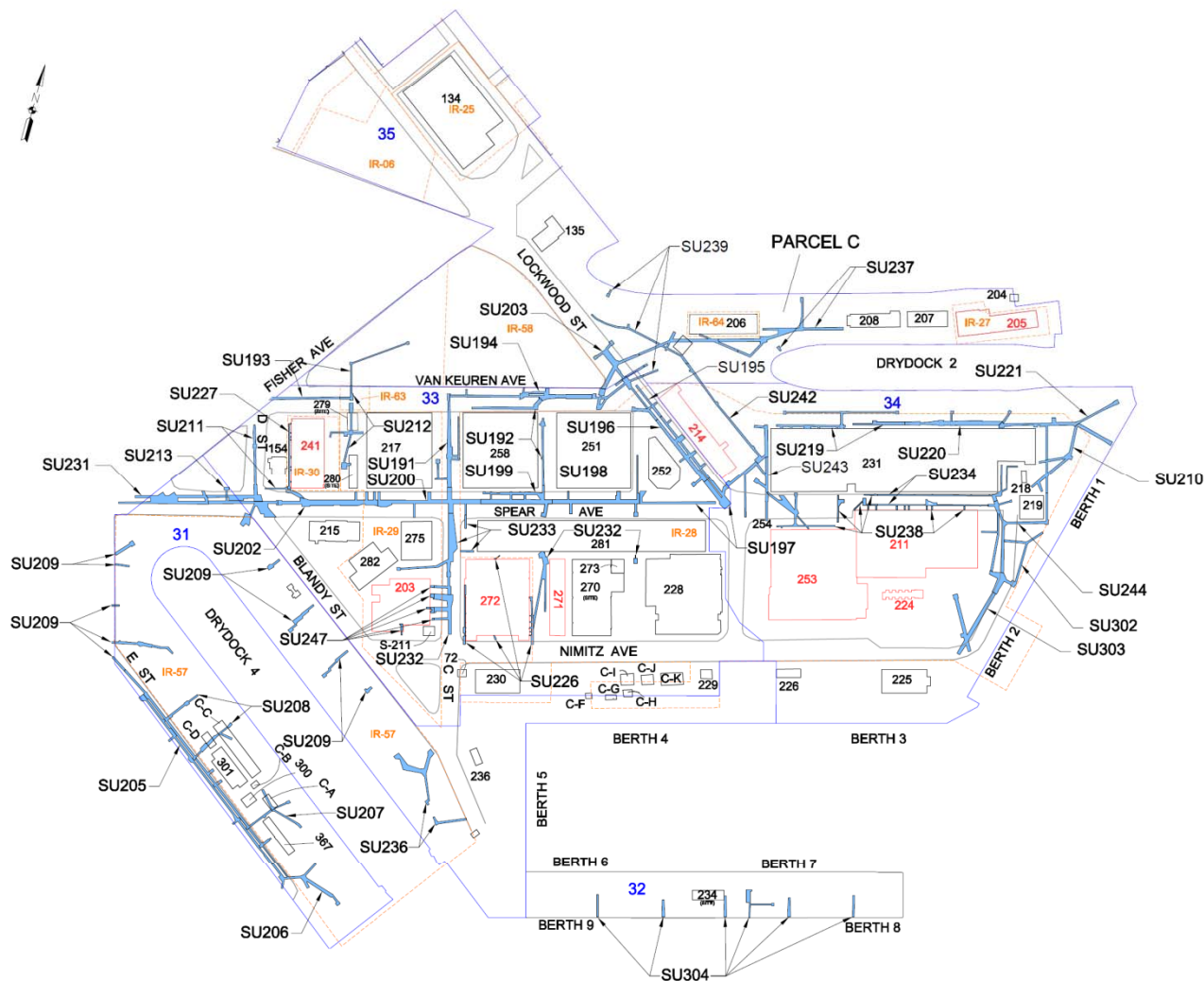


Crisp Road/Parcel E Building and Site Surveys





Parcel C Storm Drain & Sewer Removals



LEGEND

- SU 191 - SURVEY UNIT (SU)
- 34 - WORK AREA BOUNDARY AND NUMBER
- IR-27 - IR BOUNDARY AND NUMBER
- 140 - IMPACTED BUILDING BUILDING NUMBER
- 142 (SITE) - IMPACTED BUILDING FORMER BUILDING LOCATION
- 128 - NON-IMPACTED BUILDING BUILDING NUMBER
- ACTIVE TRENCH UNITS (QTY = 0)
- TRENCH UNITS THAT HAVE PASSED SYSTEMATIC SAMPLING BUT WAITING FOR OFFSITE (QTY = 0)
- TRENCH UNITS THAT HAVE PASSED OFFSITE AND SYSTEMATIC SAMPLING BUT WAITING FOR BACKFILL APPROVAL (QTY = 0)
- APPROVED FOR BACKFILL (QTY = 0)
- BACKFILLED/PAVED (QTY = 41)
- CURRENTLY BACKFILLING/SITE RESTORATION (QTY = 0)



Parcel C Storm Drain & Sewer Removals



- "Phase I" SS/SD removal field work – COMPLETE!
- SS/SD line removal
 - Completed removal of the scoped 22,907 linear feet of SS/SD lines on April 23, 2012
 - 65% of the total 37,479 lf of Parcel C removed to date
 - 35,979 cubic yards excavated
 - 41 of 41 active Survey Units have been restored/repaved



Parcel C Phase I Building and Site Surveys



Building 214

- Received free release letter

Building 271

- Received free release letter

North Pier

- Awaiting off-site data; developing Internal Draft FSS

Building 272

- Received free release letter

Buildings 203

- Received free release letter

Building 241

- CDPH performed confirmatory surveys on May 23; Awaiting confirmation sample results



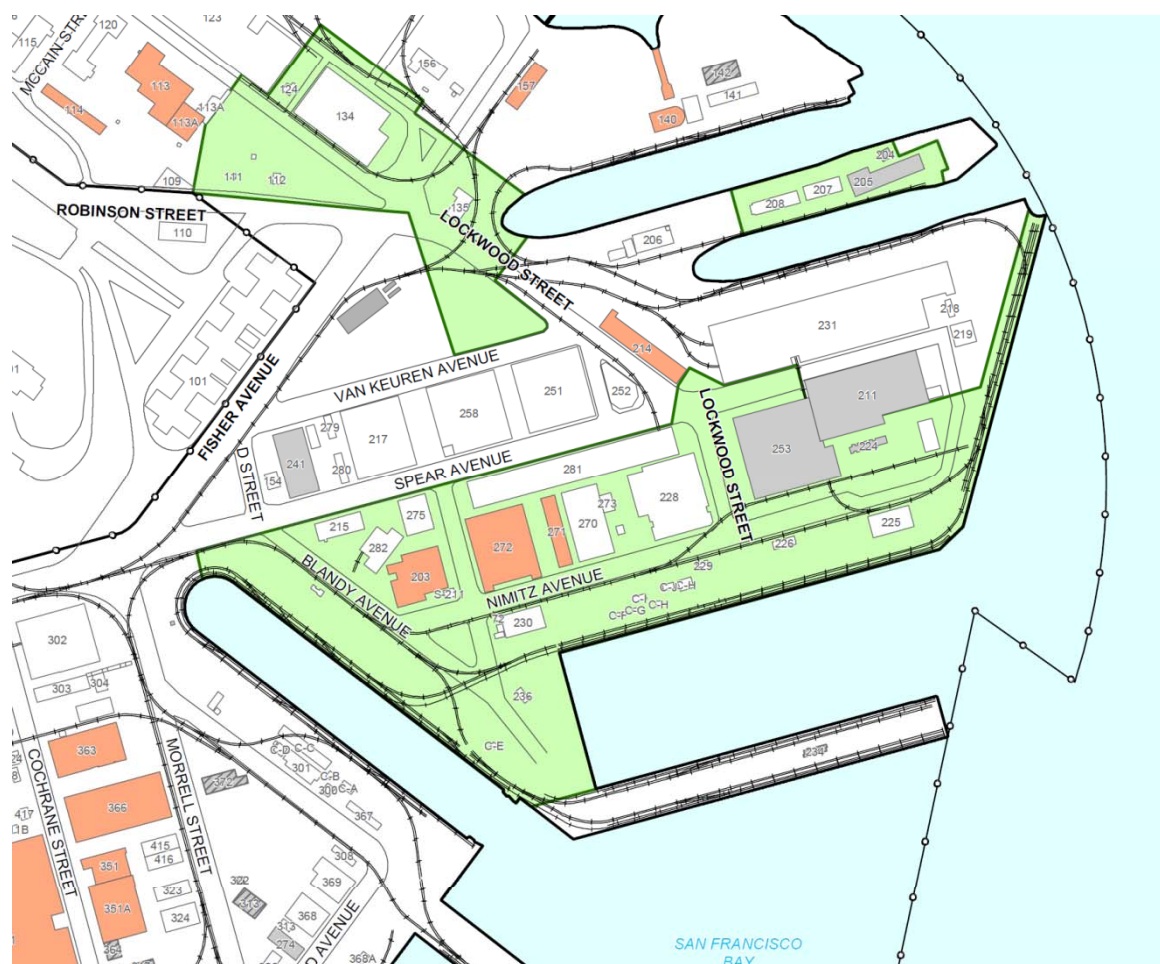
Parcel C Phase II Storm Drain & Sewer Removals



- Parcel C -Phase II
 - The Parcel C Phase II scope includes:
 - The removal of the remaining 14,300 linear feet of SS/SD
 - The survey of Ships Berths 1 through 5 in support of radiological release
 - No Buildings
 - The Execution Plan and Health and Safety are being drafted
 - Submitted the ID Archeological Monitoring and Discovery Plan
 - Submitted the ID Design Plan



Parcel C Phase II SS/SD Removal



LEGEND

- PARCEL C PHASE II
- IMPACTED BUILDING OR SITE THAT HAS OBTAINED REGULATORY RELEASE
- IMPACTED BUILDING OR SITE

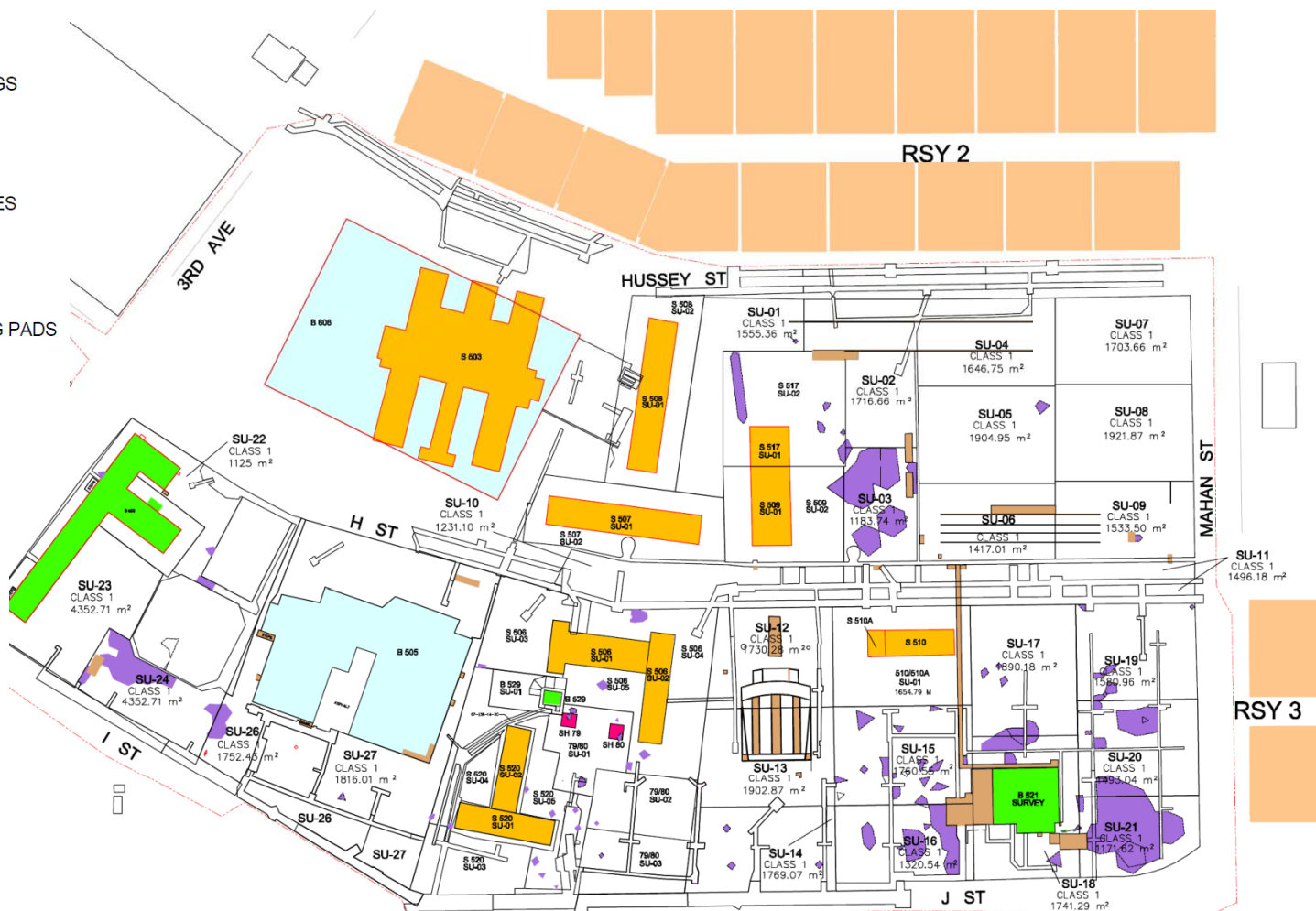


Impacted Building and Sites Within Parcel E 500 Series Area



LEGEND

	SURVEY UNIT
	NON-IMPACTED BUILDINGS
	IMPACTED BUILDINGS
	IMPACTED BUILDING SITES
	IMPACTED SHACK SITES
	RSY 2 AND 3 SCREENING PADS
	CONCRETE
	REMEDIED AREAS





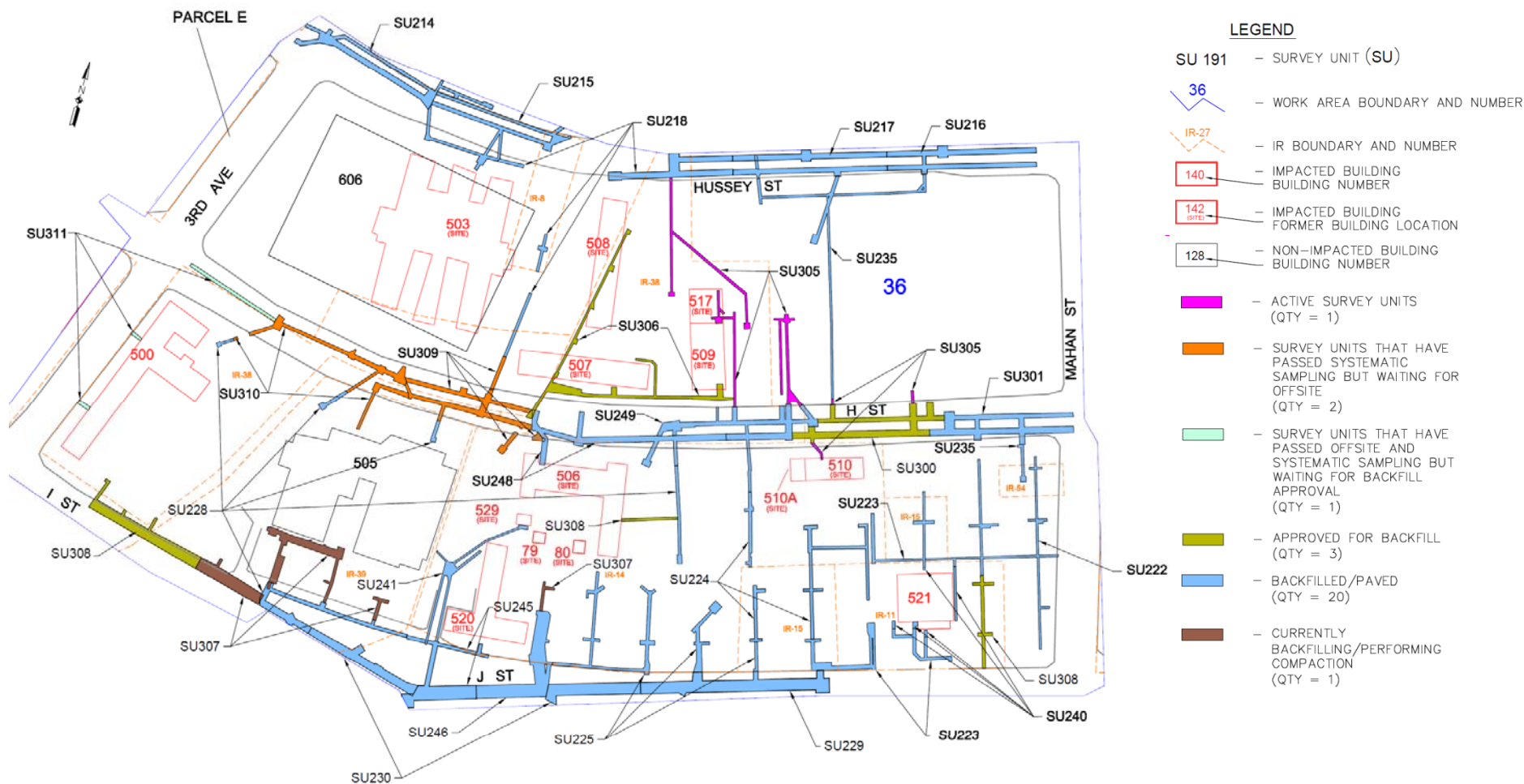
Parcel E 500 Series Building / Site Surveys



- Former Building Shacks 79/80 Sites
 - Awaiting off-site analytical results.
- Former Building 503, 506, 507, 508, 517, and 520 Site
 - Drafting Internal Draft FSS Report.
- Former Buildings 509, 510/510A, and 529 Sites
 - Drafting Final FSS Report and RTCs
- Buildings 500 and 521
 - Final FSS Report and RTCs in RASO review
- 500 Series Area
 - 88% completed scanning and sampling



Parcel E Storm Drain & Sewer Removals





Parcel E 500 Series Storm Drain & Sewer Removals



- SS/SD line removal
 - Completed scoped removal on June 18, 2012:
 - 16,119 linear feet of SS/SD lines removed (500 Series only)
 - 40% of the 58,000 LF or Parcel E SS/SD lines removed to date
 - 28,176 cubic yards excavated
 - 20 of 24 active survey units have been restored



Parcel E Remaining Field Activities



Parcel E 500 Series Area

- Replace asphalt along southern side of Building 606
- Continue installation of swales
- Continue with the survey, sampling, and remediation activities within the 500 Series Area and the active trench units
- Complete backfill and site restoration of trench units

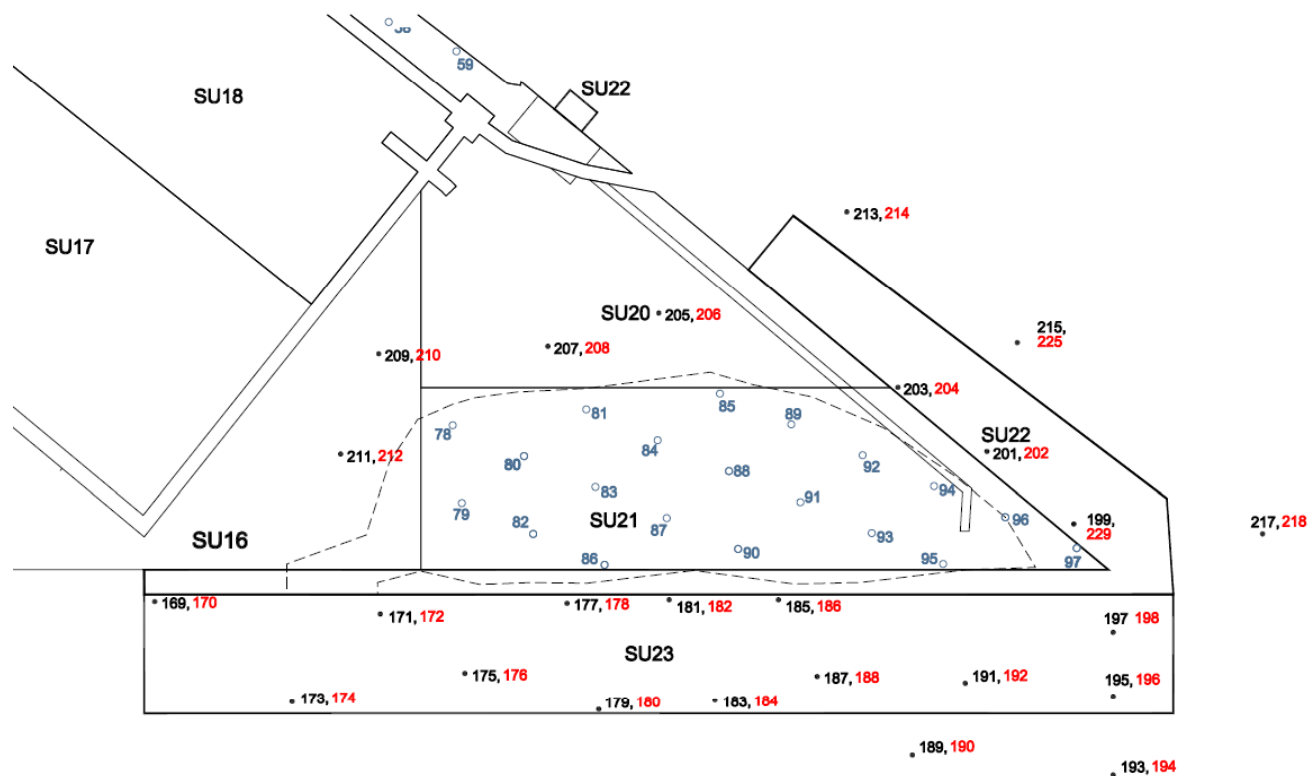


Building 707 Triangle Area Sr-90 Remediation





Building 707 Triangle Area Sr-90 Remediation



Sr-90 Activity					
SU	Sample ID	Flags	Activity	Uncertainty	MDL
9	03707-S0009-F044-01		0.385	0.344	0.310
	03707-S0009-F045-01		0.617	0.372	0.320
14	03707-S0014-F034-01		0.711	0.349	0.294
	03707-S0014-F036-01		0.442	0.352	0.318
16	03707-S0014-F038-01		0.352	0.344	0.315
	03707-S0016-F033-01		18.50	1.770	0.294
17	03707-S0016-F050-01		0.619	0.411	0.363
	03707-S0017-F025-01		1.740	0.463	0.330
20	03707-S0017-F037-01		15.10	1.500	0.298
	03707-S0017-F049-01	U	0.339	0.373	0.344
21	03707-S0020-F039-01		0.392	0.321	0.288
	03707-S0021-F076-01		1.120	0.371	0.284
21	03707-S0021-F077-01		0.379	0.314	0.281
	03707-S0021-F078-01		1.090	0.360	0.273
21	03707-S0021-F079-01		0.818	0.339	0.272
	03707-S0021-F081-01		0.763	0.350	0.292
21	03707-S0021-F082-01		0.986	0.343	0.264
	03707-S0021-F083-01		0.548	0.347	0.303
21	03707-S0021-F084-01		0.410	0.314	0.279
	03707-S0021-F085-01		0.698	0.365	0.309
21	03707-S0021-F087-01		0.803	0.349	0.285
	03707-S0021-F089-01		0.602	0.312	0.260
21	03707-S0021-F090-01		0.836	0.333	0.265
	03707-S0021-F091-01		0.466	0.326	0.287
21	03707-S0021-F092-01		0.810	0.369	0.306
	03707-S0021-F093-01		0.785	0.369	0.312
21	03707-S0021-F094-01		0.662	0.332	0.277
	03707-S0021-F095-01		0.369	0.314	0.281

LEGEND:

BOUNDING SAMPLES 169-224

BOTTOM SAMPLES (169) @ 24" BELOW GROUND SURFACE

SIDEWALL SAMPLES (170) @ 12" BELOW GROUND SURFACE (ON WALL TOWARDS SU21)

----- EXTENT OF REMEDIATION (18" to 24") BELOW GROUND SURFACE

SU-21 SYSTEMATIC 78-91 @ 12"



Building 707 Triangle Area Remediation



Marking out the area to be remediated



Using excavator to remove elevated soil for placement into adjacent bin



Setting up air monitoring equipment and staging bin for placement of excavated soil



707 Triangle Area Remaining Field Activities



Building 707 Triangle Area

- 20 of the 23 survey units have been completed
- Performing remediation of the last elevated area (SU-22)
- Awaiting the off-site results for the remaining 2 survey units



Parcel D-1 Current Field Work Status



- Gun Mole Pier
 - Work to be completed mid May through October 2012
 - Subsurface vault and manholes sediment sampling; 100% complete
 - Removal of concrete pads and structures; 100% complete
 - Utility corridors sampling and surveying; 100% complete
 - Surveys of concrete walls and utility hoods; 100% complete
 - Vaults and manholes; sampling and survey 100% complete
 - Remediation of remaining 2 impacted SUs for cesium-137 complete. Survey and sampling completed and awaiting final results
 - Recollection of final gamma walk over data commenced
- South Pier
 - Additional work to be completed July through October 2012
 - Subsurface vault and manholes sediment sampling; 100% complete
 - Removal of concrete pads and structures; 100% complete
 - Utility corridors sampling and surveying; 100% complete
 - Surveys of concrete walls and utility hoods; 60% complete
 - Upon completion of additional concrete removals, areas will be final gamma walkover data to be recollected



Parcel D-1 Current Field Work Status (cont'd)



Gun Mole Pier utility corridor GEC04 hosting a 350 lf steam line; radiological sampling completed Aug 4, 2012



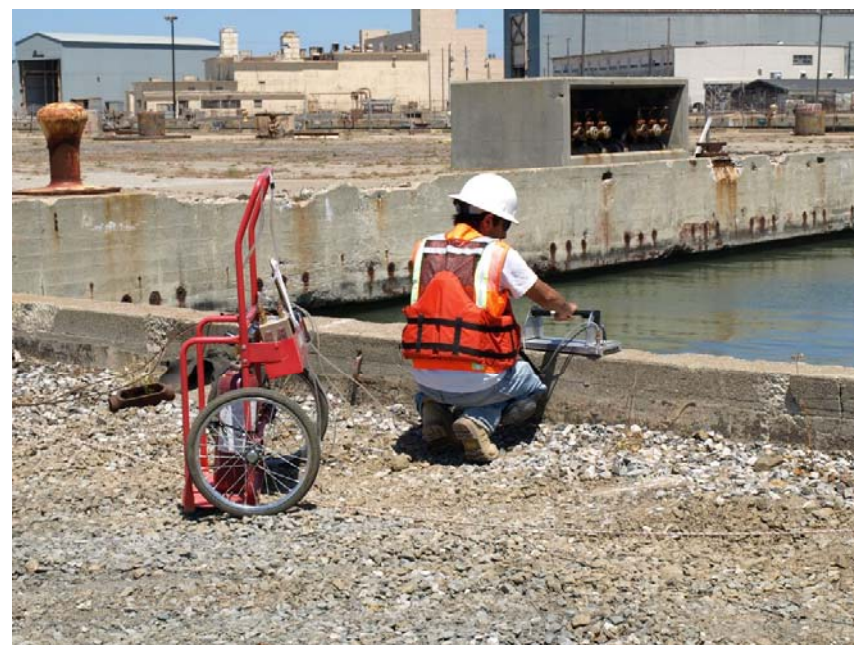
South Pier utility corridor SEC01 hosting a 700 lf steam line; radiological sampling completed Aug 4, 2012



Parcel D-1 Current Field Work Status (cont'd)



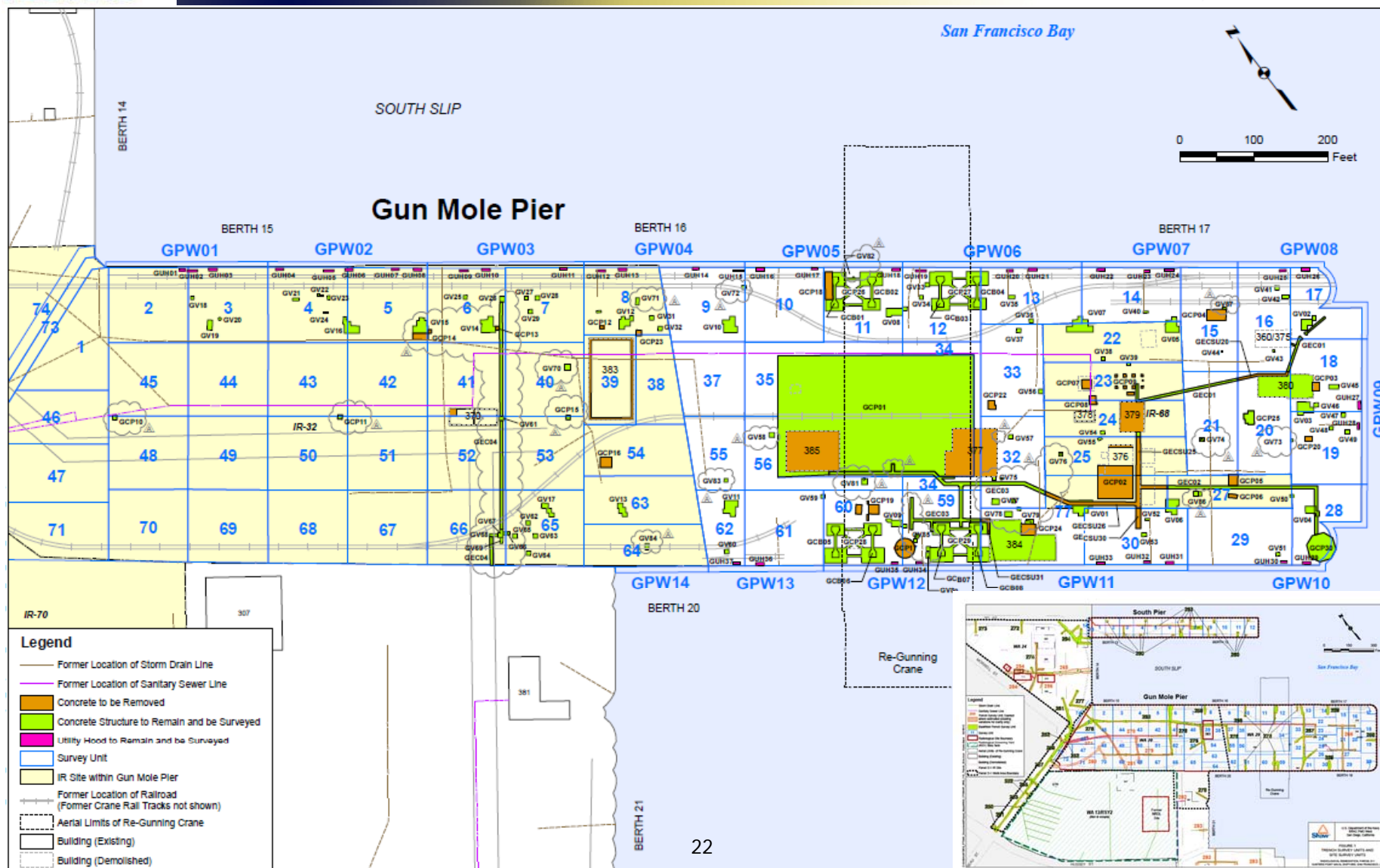
- Building 383 Area
 - Remediation complete and samples meet release criteria
 - Internal draft FSS Report for Building 383 Area being prepared for RASO review
- Building 313, 313A & 322 Sites
 - Draft FSS Report planned for September 2012
- Draft FSS Building 274 in Regulator review. Comments due September 10, 2012



Surveying of Gun Mole Pier walls and utility hoods (August 2012)

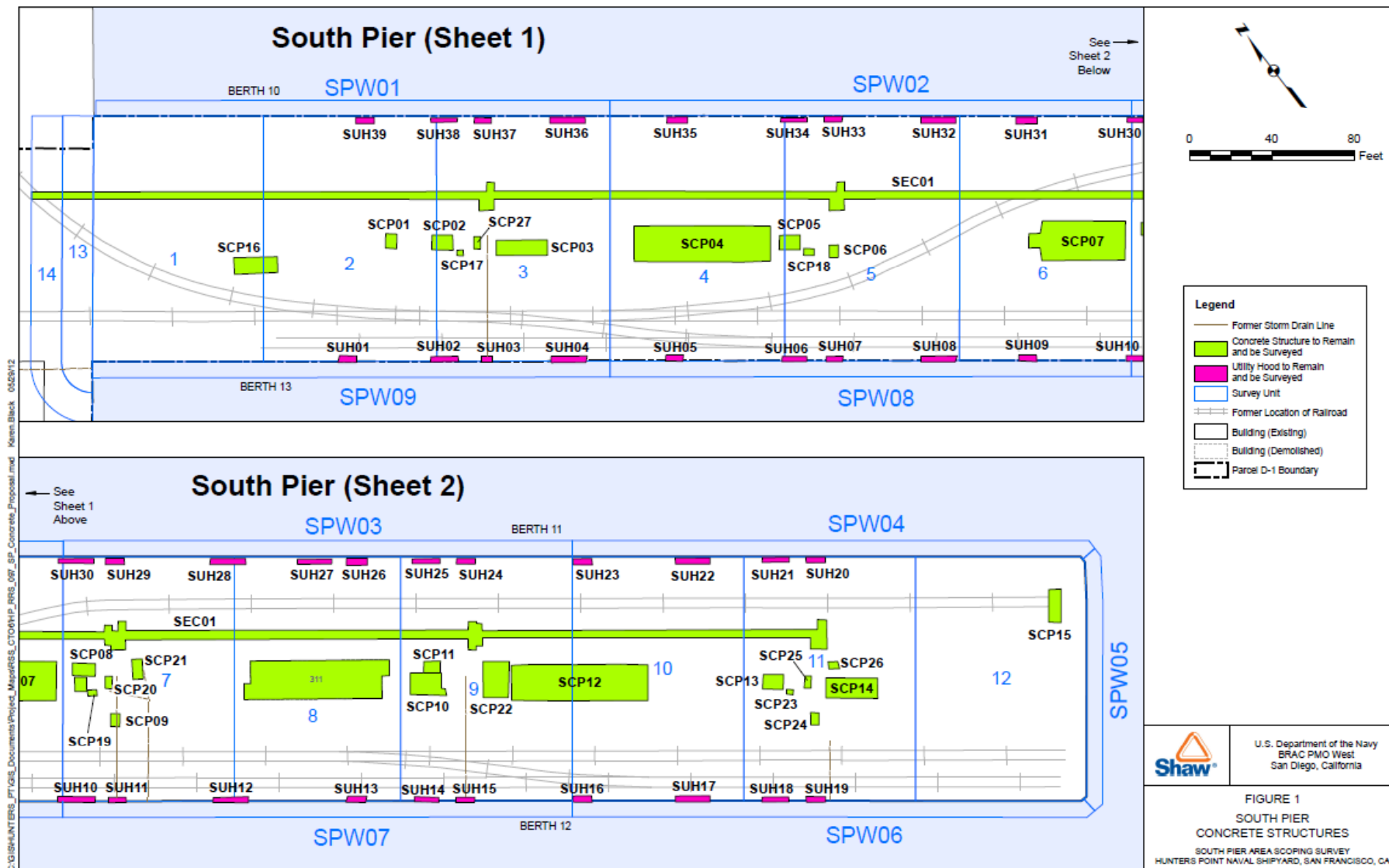


Parcel D-1 Gun Mole Pier Concrete Structures Overview





Parcel D-1 South Pier Concrete Structures Overview





Parcel D-1 Current Field Work Status (cont'd)



- Storm Drain and Sanitary Sewer Removal
 - 100% complete
 - Preparation of final SU reports on-going for remaining SUs 254, 256, 256 (received data in August to show final results meet release criteria)
 - 6 of 7 Draft SUPR Packages completed and reviewed by Regulators
 - Currently completing response-to-comments document for final submittals
 - Upon RASO approval of response-to-comments, final submittals will be issued for SUPR packages #101 through #106 (September 2012)
 - Package #107 remains. Package to be submitted upon clearance of final SUs 254, 256, and 265 and 283 (September 2012). Package #107 will have four SUs



Status of Radiological RACRs



- Final **Parcel UC-3** Rad RACR issued March 2012
 - Awaiting free release letter
- Final **Parcel D-2** Rad RACR (Rev.2)
 - Free Released
- Final **Parcel G** Rad RACR
 - Free Released
- Final **Parcel UC-1&2** Rad RACR
 - Free Released
- Final **Parcel B** Rad RACR
 - Free Released



IR 7/18 Modeling Update



- Revised Memo and Modeling Package under CDPH-RHB review
- Navy awaiting concurrence or comments from CDPH
 - Update from Jeff Wong?



Comments, Questions, Concerns ???